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DATE MAILED: 01/10/2007

NOTICE OF ALLOWANCE AND FEE(S) DUE

01/10/2007

UNISYS CORPORATION 25725 JERONIMO ROAD, MS400 MISSION VIEJO, CA 92691

EXA	MINER		
ORTIZ, BELIX M			
ART UNIT	PAPER NUMBER		
2164			

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,723	01/22/2004	Courtney Chi Hoang	AWK 03-053	5612

TITLE OF INVENTION: SYSTEM AND METHOD FOR VERIFICATION OF A QUIESCED DATABASE COPY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV	V. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1400	\$0	.•	\$0	\$1400	04/10/2007

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 JAN 2 2 2007 or Fax (571)-273-2885 INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate all further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated units appropriate below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee internations. Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 7590 01/10/2007 27201 Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. UNISYS CORPORATION 25725 JERONIMO ROAD, MS400 MISSION VIEJO, CA 92691 (Depositor's name (Signature) (Date FILING DATE FIRST NAMED INVENTOR APPLICATION NO. ATTORNEY DOCKET NO. CONFIRMATION NO. 10/762,723 01/22/2004 Courtney Chi Hoang AWK 03-053 5612 TITLE OF INVENTION: SYSTEM AND METHOD FOR VERIFICATION OF A QUIESCED DATABASE COPY APPLN. TYPE **SMALL ENTITY ISSUE FEE DUE** PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE NO \$1400 \$1400 04/10/2007 nonprovisional EXAMINER ART UNIT **CLASS-SUBCLASS** ORTIZ, BELIX M 2164 707-204000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignce category or categories (will not be printed on the patent) : 🔲 Individual 🔲 Corporation or other private group entity 🔲 Government 4b. Payment of Fcc(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: ☐ Issue Fee A check is enclosed. ☐ Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any ☐ Advance Order - # of Copies (enclose an extra copy of this form). overpayment, to Deposit Account Number 5. Change in Entity Status (from status indicated above) ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. □ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature _

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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25725 JERONIMO ROAD, MS400 MISSION VIEJO, CA 92691 JAN 2 2		2 2 2007	· ART UNIT	PAPER NUMBER	
			2164 DATE MAILED: 01/10/2001	7 .	
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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 483 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 483 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
OIPE	1	HOANG ET AL
Notice of Allowability	10/762,723 Examiner	HOANG ET AL.
JAN 2 2 2007 (m)		
VAIN & B.	Belix M. Ortiz	2164
All claresteing allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT FOR the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in thi b) or other appropriate communic RIGHTS. This application is subj	s application. If not included ation will be mailed in due course. THIS
1. This communication is responsive to <u>10/6/2006</u> .		
2. The allowed claim(s) is/are 1,4,5 and 9-12.		·
3. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have	ve been received.	•
2. Certified copies of the priority documents have		
3. Copies of the certified copies of the priority de	ocuments have been received in	this national stage application from the
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	•	
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subr	MENT of this application.	
INFORMAL PATENT APPLICATION (PTO-152) which gir	ves reason(s) why the oath or de	eclaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mu		
(a) \square including changes required by the Notice of Draftspe		PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) including changes required by the attached Examine Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the countries the header according to 37 CFR 1	trawings in the front (not the back) of I.121(d).
6. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATER T FOR THE DEPOSIT OF BIOLO	IAL must be submitted. Note the DGICAL MATERIAL.
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material) 6. ☐ Interview Sum Paper No./Ma 7. ☐ Examiner's An	nil Date /
		ALFORD KINDRED PRIMARY EXAMINER

Art Unit: 2164

DETAILED ACTION

Remarks

1. In response to communications files on October 6, 2006. Therefore, claims 1, 4-5, and 9-12 are presently pending in the application.

Reasons for Allowance

- 2. Claims 1, 4-5, and 9-12 are allowed
- 3. The following is a statement of reasons for the indication of allowable subject matter: the prior arts of records, neither anticipates nor renders obvious the following limitations as claimed:

As to claim 1, the prior art of records fail to anticipate or suggest a method for the verification of a quiesced database copy of a primary database by executing a number of independent tasks from an assignment t table said verification to prevent the waste of time during subsequent recovery operations:

- (a) establishing a secondary database copy which replicates said primary database holding data blocks;
- (b) quiescing said secondary database copy so that no update access to said database copy is operable;

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- (c) utilizing a Verify option in a database utility program to check said quiesced secondary database copy for integrity said step including the steps of:
- (cl) checking each row in said quiesced database copy to perform a checksum verification;
- (c2) checking each row in said quiesced database copy to perform an addresscheck verification,
- (d) utilizing a VERIFY TASKS option to control said number of independent tasks assigned to perform said check of said quiesced database copy for integrity, together with the other limitations of the independent claims.

As to claim 5, the prior art of records fail to anticipate or suggest (a) means for replicating said primary database (15) with a quiesced database copy (19);

- (b) means to disable access by said applications (10-13) to said quiesced database copy (19);
- (c) means to verify the data integrity of said quiasced database copy(19) including the steps of:
- (cl) means to execute a checksum verification of each data block in said database copy (19);
- (c2) means to perform an Addresscheck operation on each data block in said quiesced database copy (19);

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(d) means to establish data access to said quiesced database copy (19) after verification of the integrity of said database copy (19), together with the other limitations of the independent claims.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Belix M. Ortiz whose telephone number is 571-272-4081. The examiner can normally be reached on moday-friday 9am-5pm.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

bmo

December 13, 2006



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